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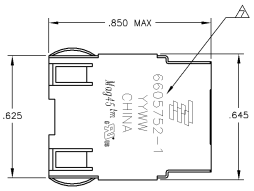
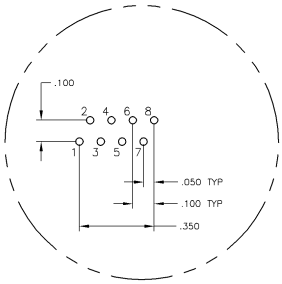
UNIT	SHEET
AA	22

REVISIONS

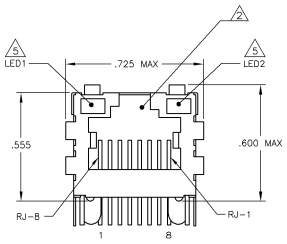
P	LTR	DESCRIPTION	DATE	DWN	APVD
	C	REV PER ECO-09-001491	06JAN2009	VL	TX

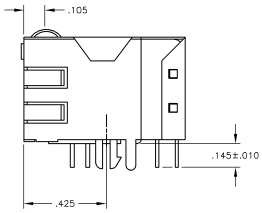
MECHANICAL:

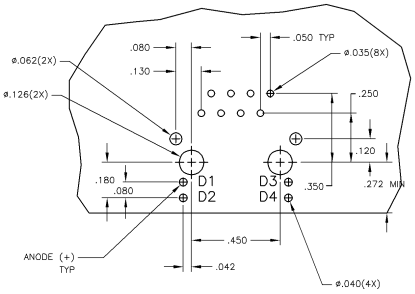




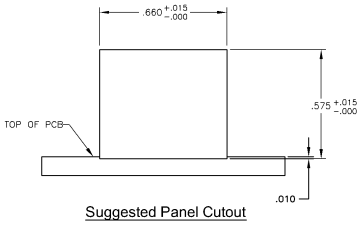
Pin Designations





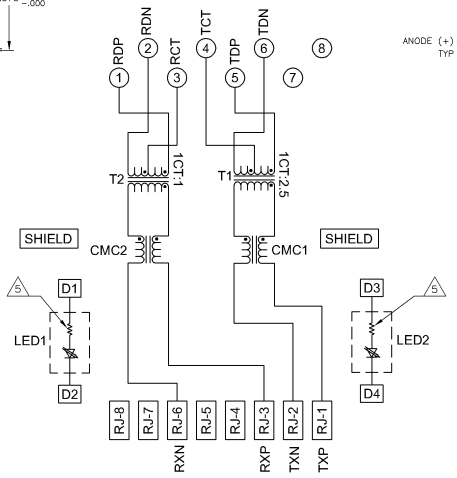


Suggested PCB Layout
(Component Side)



Suggested Panel Cutout

724 SERIES MAGNETIC CIRCUIT



1. MATERIALS:
-HOUSING - THERMOPLASTIC PET POLYESTER FLAMMABILITY RATING UL 94V-0.
-SHIELD - .010" THICK, C26800 BRASS PREPLATED WITH 30µINCH MIN SEMI-BRIGHT NICKEL, SOLDER TABS POST DIPPED WITH 100µINCH MIN SAC SOLDER.
-MOD JACK CONTACTS - 0.0157" x 0.018" PHOSPHOR BRONZE, 50µINCH MIN OVERALL NICKEL UNDERPLATE, WITH SELECT 50µINCH MIN HARD GOLD FINISH PLATE. SOLDERTAILS WITH 100µINCH MIN MATTE TIN AND/OR SAC SOLDER DIP.
-LIGHT EMITTING DIODE(LED) - DIFFUSED EPOXY LENS, .020" x .020" CARBON STEEL WIREFRAME LEADS PRE-PLATED WITH 80µINCH SILVER OVER 40µINCH NICKEL UNDERPLATE OVER 40µINCH COPPER UNDERPLATE, POST-PLATED WITH 100mINCH MIN MATTE TIN AND/OR SAC SOLDER DIP OR PURE TIN SOLDER DIP.

2. RJ45 JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS PART 68, SUB PART F.

3. MAGNETICS
-APPLICATION: 10 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): TX = 1:2.5 RX = 1:1
-TRANSMIT OPEN CIRCUIT INDUCTANCE (OCL): 14.0mH MIN @ 100kHz, 0.1VRMS
-LEAKAGE INDUCTANCE (LL): 0.30mH MAX @ 100kHz, 0.1VRMS
-INTERWINDING CAPACITANCE (CWW): 15pF MAX @ 100kHz, 0.1VRMS
-ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 15.3.4, ITEM a.

4. OPERATING TEMPERATURE: FROM 0 °C TO +70 °C.

5. THE 250 OHM LED RESISTORS ARE OPTIONAL, PLEASE SEE CHART FOR PRESENCE OR ABSENCE OF LED RESISTORS.IF THE LED WITHOUT 250 OHM RESISTORS, LED IS DRIVEN WITH CONSTANT CURRENT AT APPROX 20mA.LED COLOR:
DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF):GREEN 2.2VTYP. @ IF=20mA
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ IF=20mA
FORWARD VOLTAGE (VF):YELLOW 2.1VTYP. @ IF=20mA.
IF THE LED WITH 250 OHM RESISTORS,LED IS DRIVEN WITH 5V VOLTAGE AND THE MAX OPERATING CURRENT IS 20mA. LED COLOR
DOMINANT WAVELENGTH (λD): GREEN 568 nm TYP. @ VF=5V
FORWARD CURRENT (IF): GREEN 12 mA TYP. @ VF=5V
DOMINANT WAVELENGTH (λD): YELLOW 588 nm TYP. @ VF=5V
FORWARD CURRENT (IF): YELLOW 13 mA TYP. @ VF=5V

6. INDICATED CONNECTIONS ARE FOR NIC CONFIGURATION

7. TYCO ELECTRONICS, PART NUMBER, DATE CODE, COUNTRY OF ORIGIN AND AGENCY APPROVAL MARKING IN APPROXIMATE LOCATION SHOWN.

8. THESE PARTS ARE RECOMMENDED FOR WAVE SOLDERING PROCESS,PREHEAT TEMPERATURE IS 120 °C TO 160 °C, 120 SECONDS TO 180 SECONDS,PEAK WAVE SOLDERING TEMPERATURE IS 260 °C MAX,10 SECONDS MAX.

YES	GREEN	YES	GREEN	1-6605752-1
NO	GREEN	NO	GREEN	6605752-7
YES	GREEN	YES	YELLOW	6605752-1
LED RESISTOR	LED1 5	LED RESISTOR	LED2 5	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	L. VARELA - DOCKS	26FEB2008
CHK	D. FAROLE	26FEB2008
APVD	D. FAROLE	26FEB2008
MODULAR SPEC	108-2100	
APPLICATION SPEC	–	
WEIGHT	–	
CUSTOMER DRAWING		

Tyco Electronics — Tyco Electronics Corporation, ChangPing, China

NAME: 1X1 MAG45(TM), MODULAR JACK, 7N3 10BASE-T ETHERNET SCHEMATIC, 724 SERIES MAGNETIC CIRCUIT, SHIELDED, WITH LEDS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6605752	–

SCALE NTS SHEET 1 OF 1 REV C

MATERIAL 1 FINISH 1 DIMENSIONS: INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± – 1 PLC ± .010 2 PLC ± .005 3 PLC ± – 4 PLC ± – ANGLES ± –

AEP 4805 REV 31MAR2000

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